

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM HALMSTAD ASPHALT PLANT – BISKOPSTORP

Functional unit: 1000 kg asphalt mixture

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD[®], in accordance with ISO 14025 and EN 15804.



Information about the product

The asphalt mixtures declared are manufactured at the asphalt plant Halmstad in Biskopstorp, by NCC Industry, Division Asphalt in Sweden. In 2020, about 65 000 tonnes of asphalt mixtures were produced at the plant. The mixtures declared are the most common ones during the year of production. Asphalt plants manufacture asphalt mixtures for paving purposes. The asphalt mixtures that can be produced at the declared plant are hot mix asphalt (HMA), warm mix asphalt (WMA), and polymer modified asphalt (PMB).

Information about the company

NCC is one of the leading construction and property development companies in the Nordic region, with sales of 5.4 billion Euro and approximately 14 500 employees in 2020. With the Nordic region as its home market, NCC is active throughout the value chain – developing commercial properties and constructing housing, offices, industrial facilities and public buildings, roads, civil engineering structures and other types of infrastructure. NCC also offers input materials used in construction and accounts for paving and road services.

Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product in kg CO₂ eq. per 1000 kg asphalt mixture.

	ABT 11 100/150 AN10	ABT 11 70/100	ABS 16 45/80-55 AN10	Viacochip 16 AN10
GWP - Total	22	17	37	22
GWP – Fossil	22	17	37	22
GWP – Biogenic*	0	0	0	0

GWP – Luluc		0.081	0.062	0.099	0.094
GWP – GHG*		22***	17***	37***	22***
Viacochip 16 AN7	AN7 ABb 16 70/100	ABT 16 70/100 AN10	ABT 8 160/220	ABT 8 100/150	AG 16 100/150 Förh. LTA
25	14	20	19	18	14
25	14	20	19	18	14
0	0	0	0	0	0
0.12	0.062	0.081	0.056	0.060	0.0556
25***	14***	20***	19***	18***	14***
ABT 11 70/100 AN10	ABT 11 100/150	Viacochip 16 AN12	ABT 11 100/150 Just	ABT 11 100/150 Just LTA	ABT 11 70/100 Just
20	17	18	16	15	16
20	17	18	16	15	16
0	0	0	0	0	0
0.079	0.061	0.056	0.062	0.056	0.061
20***	17***	18***	16***	15***	16***
ABT 11 70/100 Just LTA	ABT 11 100/150 Hand	ABT 16 70/100 Just	AG 22 100/150 Just Light	AG 16 100/150	
16	18	16	11	14	
16	18	16	11	14	
0	0	0	0	0	
0.055	0.059	0.062	0.061	0.060	
16***	18***	16***	11***	14***	

* The default value in the Swedish Transport Administration's tool Klimatkalkyl is 49 kg per tonne asphalt mixture (6.5% bitumen) for A1-A3 (Trafikverket, Klimatkalkyl version 7.0, 2020)

** This indicator is set to zero, due to inconsistencies in the dataset used delivered by Sphera. Though, net result over the life cycle is zero since carbon uptake and emission is zero during a life-cycle.

*** "GWP – total" but excluding "biogenic"

Other environmental impacts

For the full EPD, see www.environdec.com.

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CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE			
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